

## **FINGERPRINT READER USING SURFACE ACOUSTIC WAVE DEVICE**

### **ABSTRACT OF THE DISCLOSURE**

An access control method achieves enhanced security and accuracy compared with other systems through recognition of one or more distorted biometrics. The method includes outputting a distorted biometric print from a surface acoustic wave (SAW) device into an identification system, comparing the distorted print to one or more distortion patterns, and controlling access to a restricted item based on results of the comparison. The distorted print may be formed based on a transfer function or excitation frequency of the SAW device, or may be formed by a mask pattern located on or between a sensing surface of the SAW device. The print may be a fingerprint, thumb print, and palm print.